

ABSTRACT

5 Improved color image display accuracy can be achieved across a computer
network by obtaining information characterizing the color response of display devices
associated with a client residing on the computer network, and using the information to
modify color images delivered to the client. To determine gamma and gray balance, a
10 set of gray elements is displayed against a dithered gray background representing a gray
level of approximately 25 to 40% and, more preferably, approximately 33%. In some
embodiments, the gray elements and the dithered gray background may be limited to the
green color channel of the display device. Dithered backgrounds in the range
approaching approximately 33% more closely match the actual midpoint of black to
gray transition for most display devices. The gamma and gray balance information can
15 be obtained, for example, by guiding the client through a color profiling process that
profiles the color response of the display device. For example, such guidance may take
the form of a series of instructional web pages that are delivered to the client. The web
pages can be made interactive to enable collection of color characterization data from
the client.